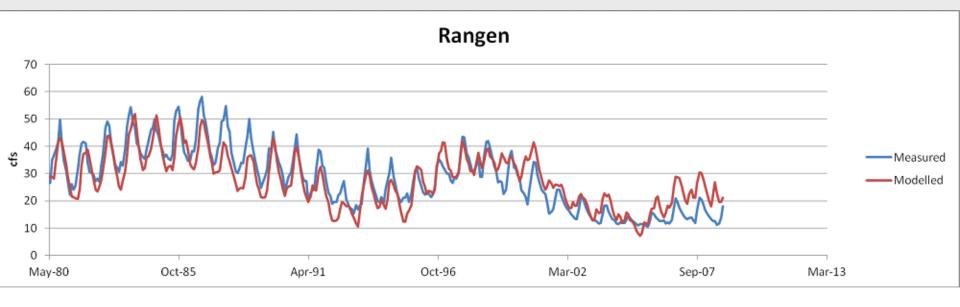
# **Analysis of METRIC ET data**

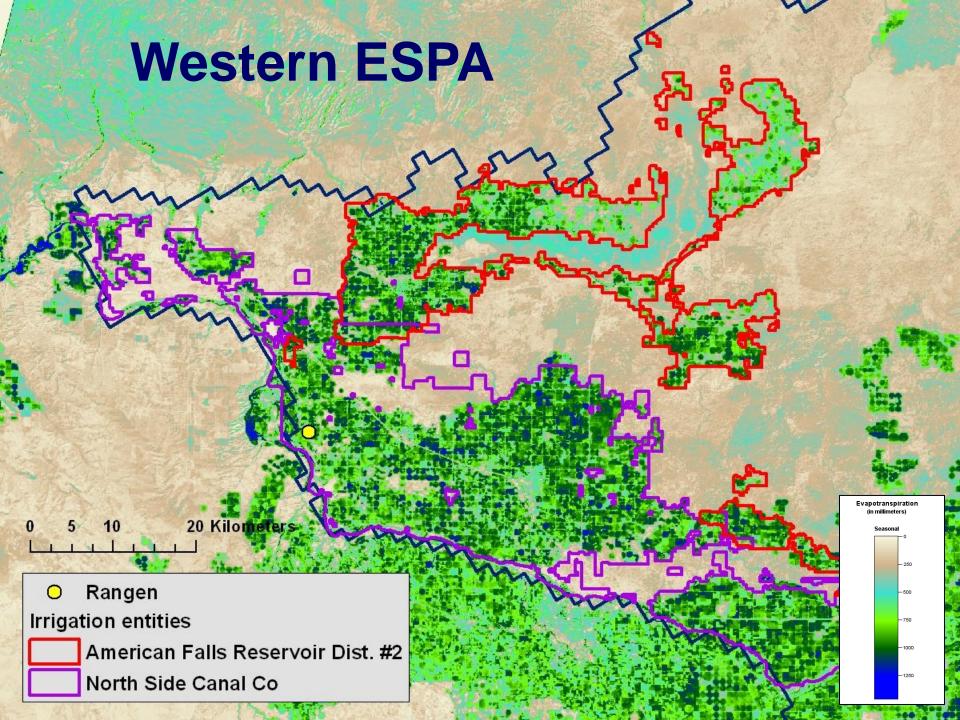
AFRD#2 and Northside Canal Co 2000, 2002, 2006 and 2008

Bill Kramber
Idaho Department of Water Resources

### **Problem**

- Large difference between modeled and measured spring flows from 2006 to 2008
- Could this be caused by changes in ET between 2006 and 2008?

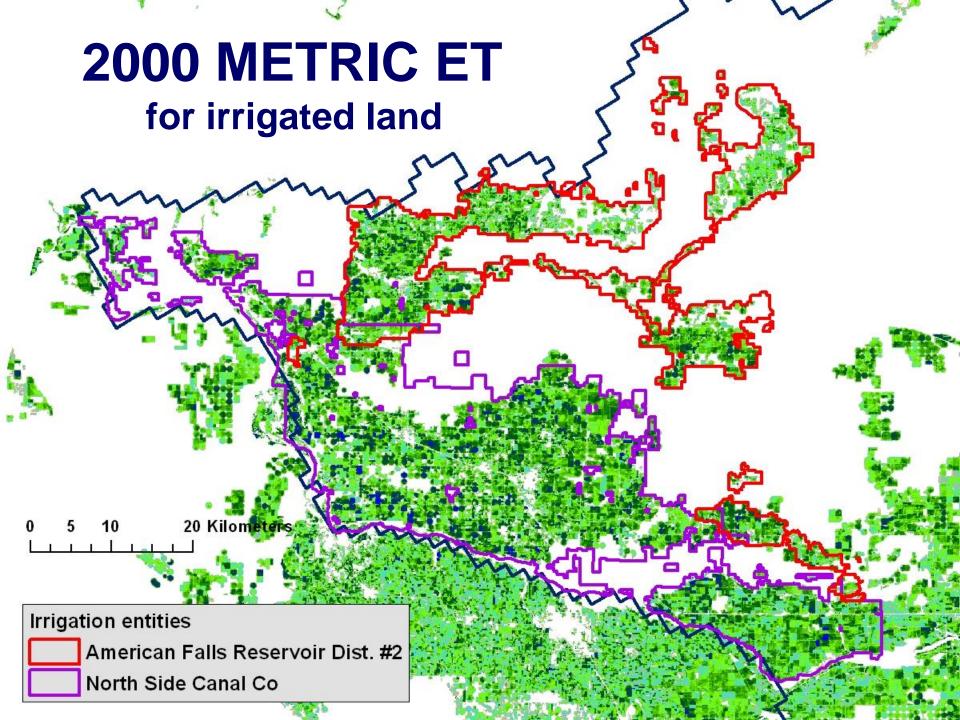




# **Analysis**

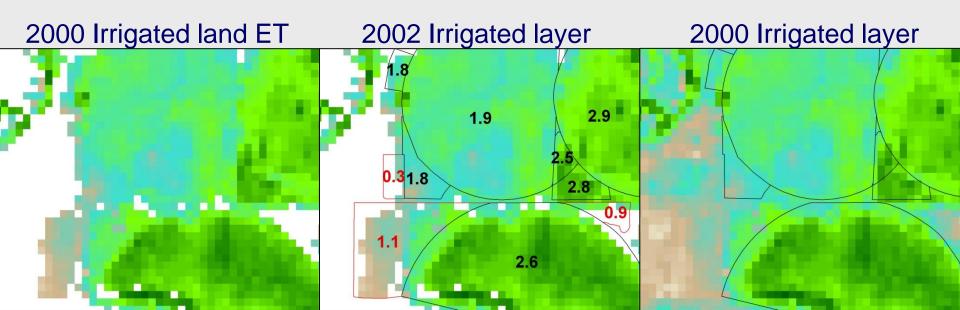
#### METRIC ET for AFRD#2 and Northside Canal Co.

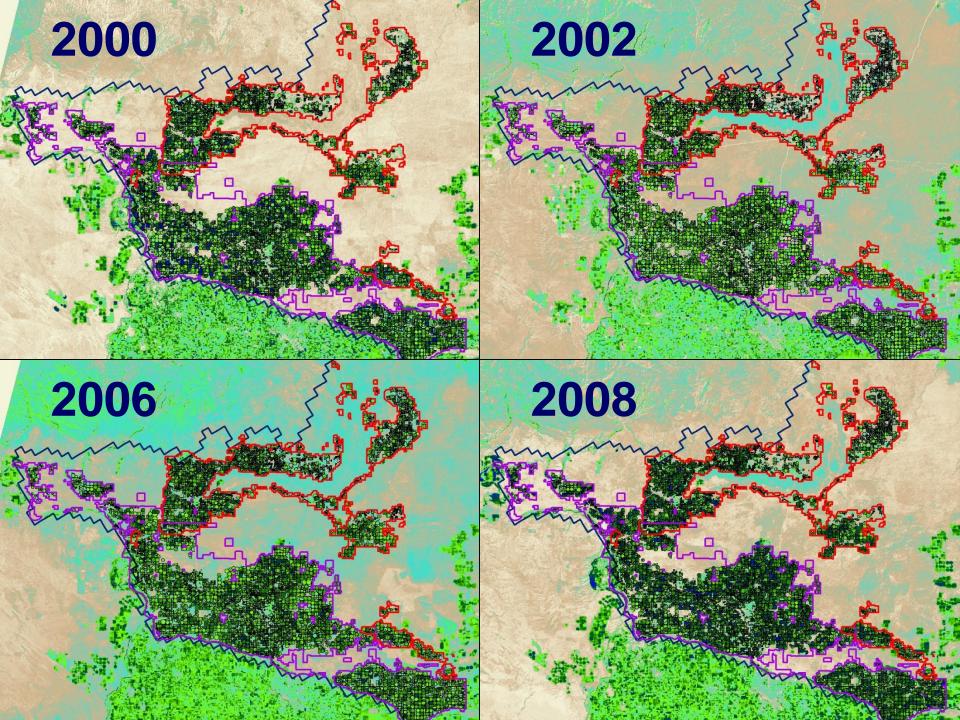
- 2000, 2002, 2006, 2008 seasonal ET
- Overlap areas treated as unique area
- Irrigated land layers for 2002, 2006, and 2008
  - Developed from CLU data
- Problem: irrigated land layer for 2000 is from a crop classification of Landsat data--not from CLU



### Solution

- Developed a preliminary irrigated land layer for 2000 from CLU to be consistent with other years
- Refined 2002 irrigated land layer
- Eliminated polygons with ET < 1.5 ac-ft/acre</li>





Irrigation Entity 2000	Mean ET mm	Acres	ET Volume ac-ft	ET ac-ft/acre
2000				
American Falls Reservoir Dist #2	815	86,932	232,592	2.68
North Side Canal Co LTD	859	204,558	576,611	2.82
Irrigation Entities Overlap Area	828	5,146	13,971	2.72
Total		296,636	823,175	2.78
2002				
American Falls Reservoir Dist #2	657	97,590	210,332	2.16
North Side Canal Co LTD	768	210,827	530,939	2.52
Irrigation Entities Overlap Area	779	5,389	13,775	2.56
Total		313,805	755,046	2.41
2006				
American Falls Reservoir Dist #2	796	100,004	261,306	2.61
North Side Canal Co LTD	831	215,011	586,337	2.73
Irrigation Entities Overlap Area	837	5,385	14,795	2.75
Total		320,399	862,438	2.69
2008				
American Falls Reservoir Dist #2	843	91,441	252,816	2.76
North Side Canal Co LTD	915	206,796	620,615	3.00
Irrigation Entities Overlap Area	927	5,109	15,545	3.04
Total		303,346	888,975	2.93
Note: The analysis used final irri	gated land use da	ata for 2002,	2006, and 2008, a	nd preliminary

#### Total ET Volume ac-ft

